Regina, June 30, 1988

To The Honourable Herb Swan,
Minister of Saskatchewan
Environment and Public Safety

Dear Sir:

I have the honour to present herewith the annual report of the Fire Commissioner for the twelve months ending March 31, 1988.

Respectfully submitted,

Vern Bartlett

Vern Bartlett,
Fire Commissioner

Table of Contents

	Page
Summary	1
Fire Commissioner's Branch	2
Tables	6

List of Tables

No.		Page
1	Fire Losses by Property Classification, Saskatchewan, 1987	6
2	Fire Losses, by Form of Heat of Ignition, Saskatchewan, 1987	8
3	Fire Losses, by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1987	8
4	Fire Losses, by Act or Omission, According to Property Classification, Saskatchewan, 1987	11
5	Fire Losses, by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1987	13
6	Fire Losses, by Material First Ignited, According to Property Classification, Saskatchewan, 1987	16
7	Fire Losses, by Fuel or Energy, According to Property Classification, Saskatchewan, 1987	19
8	Fire Losses, by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1987	21
9	Fire Losses, by Act or Omission, According to Type of Residence, Saskatchewan, 1987	24
10	Fire Losses, by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987	26
11	Fire Losses, by Material First Ignited, According to Type of Residence, Saskatchewan, 1987	29
12	Fire Losses, by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987	31
13	Property Loss Due to Fire, Saskatchewan, 1978 to 1987	34
14	Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1987	34
15	Number of Fire Fatalities, by Age and Sex, Saskatchewan, 1987	36
16	Number of Fire Injuries, by Age and Sex, Saskatchewan, 1987	36
17	Fire Deaths and Injuries Due to Careless Use of Flammable Liquids, Saskatchewan, 1978 to 1987	37
18	Fire Fatalities by Time of Day, Saskatchewan, 1987	37
19	Circumstances Contributing to Fire Casualties, Saskatchewan, 1987	38
20	Investigation of Fires, (Suspicious Circumstances) by Disposition, Saskatchewan, 1987	40
21	Investigation of Fires, Charges Laid, Saskatchewan, 1987	40
22	Investigation of Fires, Conclusion of Charges Laid, Saskatchewan, 1987	41
23	Plans and Specifications of New Buildings Reviewed, by Disposition, Saskatchewan, 1978-79 to 1987-88	41
24	Inspections and Improvement Orders Issued, by Property Classification, Saskatchewan, 1987-88	42
25	Inspections and Improvement Orders Issued, Saskatchewan, 1978-79 to 1987-88	44
26	Inspections by Property Classification, Saskatchewan, 1978-79 to 1987-88	44
27	Improvement Orders Issued, by Property Classification, Saskatchewan, 1978-79 to 1987-88	45
28	Oil Burner Licences and Permits Issued under *The Fire Prevention Act*, Saskatchewan, 1978-79 to 1987-88	45
29	Selected Activities in Fire Prevention Education, Saskatchewan, 1987-88	46
30	Selected Activities in Fire Prevention, Saskatchewan, 1978-79 to 1987-88	46
31	Volunteer Firefighters' Training Schools, Saskatchewan, 1987-88	47
32	Volunteer Firefighters' Training Schools, Saskatchewan, 1978-79 to 1987-88	48

Summary

In the report which follows, fire losses in Saskatchewan for the calendar year are included both in summary form and in greater detail. Other data included in this report are presented on a fiscal-year basis.

Fire Losses

Fire losses in Saskatchewan in the year under review are lower than the previous year. The property loss for 1987 was $23,440,453 as compared with $23,870,962 in 1986. A total of 2,810 fires were reported in 1987. Electricity was the largest single cause accounting for 25.7 percent of the total number of fires — 723 fires. Other leading causes were: coal or wood (15.4 percent — 432 fires), flammable liquids (15.2 percent — 428 fires), and smokers' materials (9.8 percent — 276 fires).

Most Fires Occur in Homes

Fires in one and two family dwellings continued to be highest in number. In 1987, 25.48 percent of all fires reported were in dwellings: a total of 716 fires with property loss of $8,190,137.

Loss of Life to Fire

The number of lives lost in fires in Saskatchewan increased in 1987 from the previous year. Thirty-three persons lost their lives (13 men, 7 women, 13 children) as compared to 21 persons in 1986.

Inspections

During the fiscal year 1987-88 provincial fire inspectors conducted routine inspections of all public and mercantile buildings in 166 towns, villages and hamlets. Special inspections were also carried out in cities and in industrial and farm properties.

Training

In 1987-88 training schools for volunteer firefighters were conducted in 96 towns and villages, and the self-contained breathing apparatus course module was delivered to one paid fire department. For the first time it was decided to present the complete Level I training package to a paid fire department. The Prince Albert Fire Department was chosen to be the recipient of this training and six of the seventeen Level I modules were presented to forty-four full-time firefighters. Of 1,138 students registered for firefighter training, 1,010 completed training courses and received certificates. Fire emergency training was given to sixty-three hospital and nursing homes. 1,475 persons attended this training.

In May 1987, the Fire Commissioner's Branch, in conjunction with the Saskatchewan Police College, conducted a Fire and Arson Investigation Course which was attended by forty fire, police and insurance personnel.

A Fire Service Instructors Course was held in North Battleford which was attended by ten firefighters.

A Fireworks Supervisory Course was conducted in conjunction with the Energy, Mines and Resources Department, Explosions Branch with 62 persons attending.

Miscellaneous Courses

815 persons attended fifteen miscellaneous fire prevention programs. Organizations that received this training were: Royal Canadian Mounted Police, Depot Training Division; Wascana Institute of Applied Arts and Science; Kelsey Institute; and Youth Unlimited.

Plan Examinations

1,105 plans and specifications for new buildings or additions, or renovations were reviewed in 1987-88. Reviews were for compliance with provincial legislation and/or the National Building Code of Canada. A number of advisory reviews were performed for towns or villages, boards or owners or other government departments.

Fire Investigation

Fire Commissioner's staff investigated 111 fires, including cases in which arson was suspected, or which for fire prevention reasons it was in the public interest to determine the cause of fire. Staff frequently aided law enforcement officers in determining the cause of fire, whether accidental or intentional. All fires reported are investigated for cause, origin or circumstances by either the Fire Chief (local assistant to the Fire Commissioner), police, insurance agencies, special investigation units, or the Fire Commissioner's staff.

Fire Prevention

As in previous years the Fire Commissioner's staff continue to disseminate information and literature on fire prevention, and advise municipal councils, fire departments and staff of institutions, hospitals, hotels and educational facilities on fire emergency programs, fire protection and prevention. Staff attended 78 special meetings, 10 public meetings, gave 104 school lectures, 429 film showings, and held 16 school fire drills.

The data included in this report have been compiled from information received from provincial fire inspectors, urban and rural fire chiefs, police forces, coroners, insurance companies and adjusters, secretary-treasurers of rural municipalities and the news media.

Fire Commissioner's Branch

The Fire Commissioner's Branch enforces *The Fire Prevention Act* and regulations thereunder with respect to:

- apartment buildings;
- educational facilities;
- hospitals;
- hotels;
- installation of automatic sprinkler systems;
- fire hose threads;
- the approval, installation and maintenance of oil burners and oil-burning equipment and appliances using combustible liquids as fuel;
- storage and handling of flammable liquids.

The branch also inspects and carries out responsibilities with regard to regulations adopted under *The Housing and Special-Care Homes Act* with respect to fire safety in special-care homes and homes for the aged.

The functions of the branch include: a program of inspection and licensing; preparation of educational and practical programs in fire prevention and fire protection; training of volunteer firefighters; fire and arson investigation; approval of plans and specifications; and the recording of information on fires in the province. The branch also provides consulting services on fire safety matters to other government departments, municipalities, organizations, industry, business, committees and individuals. For the purpose of fire inspection, the province is divided into eight districts, with fire prevention officers based in North Battleford, Prince Albert, Regina, Saskatoon, Swift Current and Yorkton.

Staff of the Fire Commissioner's Branch on March 31, 1988 is shown below by category:

Category	Approved Number of positions
All categories	**23**
Fire Commissioner	1
Principal	1
Architect	1
Senior Fire Prevention Officer	1
Fire Prevention Officers	14
Clerical	5

Associations and Committees

During 1987-88, the Fire Commissioner was a member of the Association of Canadian Fire Marshals and Fire Commissioners, the Canadian Association of Fire Chiefs, the National Fire Protection Association, the Saskatchewan Association of Fire Chiefs, the Fire Safety Councils of the Canadian Standards Association, Underwriters' Laboratories of Canada, Warnock Hersey and Canadian Gas Standards Advisory Committee, the Mobile Home Park Committee, the International Association of Arson Investigators and the Board of Directors of Fire Prevention Canada.

Conferences

The Fire Commissioner attended the following conferences: Saskatchewan Building Officials Association conference in Estevan in April, Saskatchewan Association of Fire Chiefs conference in Prince Albert in June, the Association of Fire Marshals and Fire Commissioners' conference in Whitehorse in July and the Fire Prevention Canada Board of Directors' meeting in Quebec in October.

Training and Upgrading

In April, 1987 a Fire Investigation Course was held for Saskatchewan Environment and Public Safety Electrical, Gas and Boiler inspectors. Twenty inspectors attended this course.

In September, 1987 the Acting Principal of Training attended an Emergency Communications Course at Arnprior, Ontario and four fire prevention officers attended Dangerous Goods Courses at Arnprior, Ontario. These courses were sponsored by the Federal Government.

One fire prevention officer attended an Effective Presentation Course at the Saskatchewan Police College and two attended a Fire Service Instructors Course at the Saskatoon Fire Department.

Inspection Program

Fire prevention officers of the Fire Commissioner's Branch carried out an inspection program in 1987-88 in 166 towns, villages and hamlets in various classes of buildings with the exception of dwellings, where inspections were made only as a result of a complaint or obvious hazard. Inspection of dwellings by local authorities is encouraged. Hospitals, institutions, educational buildings, and places of public assembly were inspected in the interest of fire safety. Government-owned buildings were also inspected for fire safety and evacuation procedures.

Fire departments have authority under *The Fire Prevention Act* to inspect and enforce provincial regulations. In large urban centres with paid departments having inspection staffs, provincial attention is only given in special circumstances or appeals.

During the year, fire prevention officers made 4,915 inspections. This does not include oil burner inspections, which are mentioned elsewhere in this report. Of this number, 1,005 were special inspections and 664 were re-inspection follow-ups on previous orders. A total of 618 orders to remedy certain conditions within specified periods of time were issued. Inspections and improvement orders issued are shown in Table 24, according to class of property.

Fire Prevention

The Fire Commissioner's Branch continued to advise municipal councils and fire departments with respect to fire protection requirements. 95 fire department surveys were made during the year. Inspectors advised institutions, hospitals and hotels on fire emergency programs, fire exit drills and other safety matters. In addition, inspectors attended 166 special meetings with fire chiefs, local authorities and other persons concerned with fire prevention. The fire prevention education program is summarized in Table 29.

Fire Prevention Week (October 4 - 10, 1987) was emphasized by means of lectures to school children, distribution of films, special fire prevention literature.

As part of a continuing effort to bring fire prevention to the attention of young people, the Fire Commissioner's Branch again sponsored the Annual Fire Prevention Poster Competition for public and high schools. As in previous years, the competition was open for grades one to twelve and 31 prizes were awarded. There was a total of 3,800 entrants. Winners of the contest were notified of their award by the Minister-in-Charge of *The Fire Prevention Act* and all other entrants were notified by the Fire Commissioner's Branch. The awards were made public through press. The interest shown in fire prevention by teachers and students was most gratifying.

Films

During the year under review, fire prevention and fire training films were widely distributed throughout the province. These films were used by schools, fire departments and various organizations. These films are maintained in the library of Educational Resources Distribution, Saskatchewan Education and bookings for such films can be made through them. Some films, slides and VCR tapes are also available from the Fire Commissioner's Branch.

Firefighters' Training

Training for volunteer firefighters was first introduced in the province (and in Canada) with six two-day courses given by the Fire Commissioner's Office in 1947. By 1949, twenty-three courses per year were being held and the office purchased a ¾ ton truck with a 150 gallon-per-minute pump, 100 gallon tank

and other equipment such as resuscitators and breathing apparatus. In 1952 an instructor and senior instructor were hired. Equipment was upgraded in 1963 when the truck was replaced by a new firefighting unit especially designed for training. This unit was replaced in 1967, and the 1967 unit in 1980. In 1983, staff was expanded by transfer of two positions from the Department of Northern Saskatchewan.

In 1985 the Fire Commissioner's Branch embarked on a major new training initiative with the hiring of a Principal of Training and the delivery of the first of a series of modules for a certificate course for firefighters. Three levels of training are planned based on National Fire Protection Association Standards and the work of an advisory committee. The elementary volunteer firefighter training schools offered since 1947 will be continued for a time. They will be augmented by the new program which establishes for firefighters a level of competency considered adequate for any department, paid or volunteer. Communities requesting training have their choice of programs.

The Level I program consisting of seventeen modules has been completed and several modules have been presented to fire departments throughout the province.

Committees have been established to determine training criteria for fire inspectors, fire investigators, fire service instructors and dangerous goods.

A Fire Service Instructor Training module was prepared in accordance with NFPA Standard 1033. The first course was conducted in North Battleford and ten firefighters attended.

During 1987 more emphasis was placed on modular training for firefighters. Training modules meeting the requirements of NFPA Standard 1001 have been prepared for Level I firefighters. During the past year the following training modules were delivered:

Self-contained Breathing Apparatus	21
Fire Behaviour	13
Ventilation Practices	13
Pump Course	2
Instructors Course	1

For the first time it was decided to present the whole Level I training program to one fire department. The Prince Albert Fire Department was selected to receive this training and so far six of the seventeen modules have been presented to forty-four full-time firefighters. In addition, there were 26 elementary fire schools. These courses were attended by 1,138 persons.

Volunteer firefighters training schools given in 1987-88 and training schools given in the last ten years are shown in Tables 31 and 32.

A training module was prepared for hospital and special-care home staff. This module covers fire prevention practices, pre-fire planning, evacuation procedures and hands-on fire extinguisher training. This training was delivered to sixty-three hospitals and nursing homes and 899 persons attended.

Firefighting Equipment in Saskatchewan

There are now over 520 rural fire protection associations in operation, protecting rural homes or a combination of rural and urban homes in smaller centres. Most of the associations cover districts, financed on a taxation basis, and they protect from one to three rural municipalities. They include some towns, villages and hamlets within their particular rural municipalities. Several rural fire departments are operating on a co-operative basis and by subscription.

Provincial legislation provides for agreements to share the cost of firefighting equipment under the various municipal Acts, and provides for taxation over all or part of any municipality for fire protection.

There are over 500 pumping units in the province, having pump capacities of 425 gallons or more per minute.

Plans and Specifications

During the fiscal year ended March 31, 1988, 1,105 plans and specifications for new buildings or additions to existing buildings were reviewed. Of these, 412 were approved with minor provisions and 614 were approved subject to alterations. Approval was not given in 79 examinations, either because more information was required or because major redesign was necessary or because the review was only advisory. Sketches or drawings which were reviewed in consultation with architects and other interested persons previous to the preparation of preliminary and/or final drawings totalled 109.

As in previous years, plans required to be submitted were examined for compliance with *The Flammable Liquids Regulations, The Hotel Regulations, The Hospital Fire Regulations, The Regulations Governing Fire Safety in Educational Buildings, The Regulations Governing Installation of Automatic Sprinkler Systems* and pertinent sections of the regulations under *The Housing and Special-care Homes Act*.

In examining plans submitted for government buildings and plans voluntarily submitted for structures such as churches, lodge rooms, and dry cleaning plants, the Fire Commissioner's Branch continued to apply The National Building Code of Canada as widely as possible. Codes of The National Fire Protection Association and other standards of good practice are also used for this purpose.

Table 23 shows the number of plans and specifications reviewed by disposition, 1978-79 to 1987-88.

Fire Investigation

During 1987 Fire Crime Reports were submitted for 1,085 investigations. Such reports are submitted by fire departments, police and Fire Commissioner's staff. Fire Commissioner's staff participated in 111 investigations including cases in which arson was suspected, and cases in which, for fire prevention reasons, it is in the public interest to determine the cause of the fire. While fire prevention officers made a number of investigations unassisted, they frequently aided fire, insurance and law enforcement officials in determining the cause of fire, whether accidental or intentional in origin. The results and disposition of the Fire Crime Report investigations are illustrated in Tables 20, 21 and 22. It should be noted that all fires reported are investigated for cause, origin and circumstances by the local assistant to the Fire Commissioner (secretary-treasurers, fire chief and his staff) or police or insurance agencies or special investigation units or the Fire Commissioner's staff or a combination of these forces.

Oil Burners

The Fire Prevention Act and regulations thereunder require that distributors and wholesalers of oil burners obtain an annual license and that firms or persons installing and servicing oil-burning equipment take out an annual or quinquennial license as authorized by the Fire Commissioner, for such work. The number of licenses issued during the fiscal year ended March 31, 1988, and during each of the previous nine years is shown in Table 28. The number of oil burner installation permits issued, as required by the regulations is also shown in Table 28. During the fiscal year 1987-88, 24 oil burner inspections were made.

Fire Record

Under the provisions of *The Fire Prevention Act*, the Fire Commissioner is required to maintain a record of fires occurring in the province and to include facts relating to origin and circumstances as they have been determined by the Fire Commissioner's Branch from reports of staff, fire chiefs, adjusters and police. The results are shown in Tables 1 to 14 inclusive. Information relating to fire deaths and injuries is shown in Tables 15 to 19.

Table 1

Fire Losses by Property Classification, Saskatchewan, 1987

Class of property	Number of fires	Percent	Estimated dollar loss	Percent
Total, all property classifications	**2,810**	**100.00%**	**$23,440,453**	**100.00%**
Assembly				
Total	**56**	**1.99**	**3,065,302**	**13.08**
Theatre, studio, auditorium	2	0.07	—	—
Amusement, recreation place	11	0.39	622,023	2.65
School, college, university	8	0.28	139,670	0.60
Church, court room, mortuary	6	0.21	764,811	3.26
Social, sport club	3	0.11	2,442	0.01
Library, museum	—	—	—	—
Eating establishment	24	0.85	1,510,356	6.44
Passenger terminal station	—	—	—	—
Miscellaneous	2	0.07	26,000	0.11
Institutional				
Total	**12**	**0.43**	**17,514**	**0.07**
Prison, jail, reformatory	4	0.14	200	—
Home for aged	2	0.07	16,714	0.07
Childrens' hospital	1	0.04	600	—
Hospital, sanatorium, clinic	5	0.18	—	—
Miscellaneous	—	—	—	—
Residential				
Total	**918**	**32.67**	**10,483,496**	**44.72**
Family residence, duplex	716	25.48	8,190,137	34.94
Apartment, tenement, flat	94	3.35	889,437	3.79
Rooming, boarding house	1	0.04	—	—
Hotel, inn, lodge	16	0.57	748,620	3.19
Motor hotel, motel	4	0.14	3,248	0.01
Dormitory	8	0.28	10,879	0.05
Mobile home, trailer	76	2.70	637,612	2.72
Miscellaneous	3	0.11	3,563	0.02
Business and personal service				
Total	**19**	**0.68**	**326,581**	**1.39**
Office	16	0.57	305,465	1.30
Personal service	2	0.07	21,116	0.09
Miscellaneous	1	0.04	—	—
Mercantile				
Total	**47**	**1.67**	**1,030,044**	**4.39**
Food, beverage sales	9	0.32	417,770	1.78
Textiles, clothes sales	1	0.04	5,000	0.02
Furniture, appliance sales	4	0.14	10,168	0.04
Books, news, drug sales	1	0.04	1,000	—
Recreation, hobby supplies	—	—	—	—
Repair shop, dry cleaner	11	0.39	19,872	0.08
Motor vehicles, boats, sales and service	15	0.53	575,281	2.45
Department, variety store	3	0.11	953	—
Miscellaneous	3	0.11	—	—

Table 1 (continued)

Fire Losses by Property Classification, Saskatchewan, 1987

Class of property	Number of fires	Percent	Estimated dollar loss	Percent
Industrial manufacturing				
Total	**19**	**0.68%**	**$ 1,664,166**	**7.10%**
Chemicals, paints, plastics	2	0.07	100,400	0.43
Wood, furniture, paper	2	0.07	40,000	0.17
Metal, electrical equipment	7	0.25	4,991	0.02
Food processing	5	0.18	492,825	2.10
Beverage, tobacco, soap	–	–	–	–
Footwear, clothes	–	–	–	–
Vehicles and related equipment	1	0.04	2,500	–
Miscellaneous	2	0.07	1,023,450	4.37
Industrial storage				
Total	**206**	**7.33**	**1,835,399**	**7.83**
Agricultural products	60	2.14	241,704	1.03
Textiles, fibres, clothing	–	–	–	–
Processed food, beverage	–	–	–	–
Flammable liquids, gases	5	0.18	40,000	0.17
Wood, furniture, paper	4	0.14	4,177	0.02
Chemicals, plastics, paints	2	0.07	65,000	0.28
Metal and electrical products	1	0.04	–	–
Vehicles	117	4.16	1,167,376	4.98
General item storage	17	0.60	317,142	1.35
Special property				
Total	**88**	**3.13**	**274,699**	**1.17**
Outdoor property	33	1.17	9,892	0.04
Pier, wharf	–	–	–	–
Under construction, vacant	40	1.42	234,031	1.00
Watercraft	10	0.36	10,776	0.05
Rail transport equipment	4	0.14	20,000	0.09
Aircraft	1	0.04	–	–
Special Vehicles				
Total	**156**	**5.55**	**953,527**	**4.07**
Construction equipment	22	0.78	219,183	0.94
Farm tractors and equipment	114	4.06	655,700	2.80
Other	14	0.50	71,069	0.30
Miscellaneous	6	0.21	7,575	0.03
Miscellaneous				
Total	**246**	**8.75**	**1,538,051**	**6.56**
Laboratories	3	0.11	105,000	0.45
Farm facility	113	4.02	798,761	3.41
Miscellaneous outbuildings	118	4.20	591,685	2.52
Utility	7	0.25	11,270	0.05
Cement, glass, pottery manufacturing	1	0.04	30,720	0.13
Mining, quarrying	2	0.07	–	–
Communications, data processing	–	–	–	–
Miscellaneous	2	0.07	615	–
Automobiles, Trucks and Other Ground Transport				
Total	**1,043**	**37.12**	**2,251,674**	**9.61**
Automobiles	596	21.21	1,017,119	4.34
Trucks	422	15.02	1,120,620	4.78
Motorcycles	11	0.39	29,499	0.13
Other	14	0.50	84,436	0.36

Note: The sums of individual items may not always equal the totals due to rounding.

Table 2

Fire Losses, by Form of Heat of Ignition, Saskatchewan, 1987

This table is based on (insurance paid to date)

Form of heat	Number of fires	Percent	Dollar loss	Percent
Total	**2,810**	**100.00%**	**$14,808,533**	**100.00%**
Spark, ember	176	6.26	926,958	6.26
Spark, electrical	740	26.33	2,785,702	18.81
Spark, static electrical	30	1.07	60,089	0.41
Direct flame	404	14.38	2,728,114	18.42
Friction heat	34	1.21	91,113	0.62
Hot object-direct heat	484	17.22	1,863,341	12.58
Spontaneous ignition	34	1.21	353,509	2.39
Heat from smokers' materials	159	5.66	1,352,176	9.13
Unclassified	34	1.21	278,917	1.88
Unknown	715	25.44	4,368,614	29.50

Note: The sums of individual items may not always equal the totals due to rounding.

Table 3

Fire Losses, by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,810**	**100.00%**	**$14,808,533**	**100.00%**
Means of egress	32	1.14	83,689	0.57
Assembly, sales area	146	5.20	1,686,224	11.39
Function area	612	21.78	4,253,051	28.72
Storage area	149	5.30	1,632,183	11.02
Service facility	51	1.81	222,868	1.50
Service and equipment area	79	2.81	860,922	5.81
Structural area	125	4.45	1,790,957	12.09
Vehicle area	23	0.82	472,246	3.19
Outside area	306	10.89	1,149,176	7.76
Special property	1,287	45.80	2,657,217	17.94
Assembly				
Total	**56**	**1.99**	**1,722,452**	**11.63**
Means of egress	4	0.14	—	—
Assembly, sales area	10	0.36	766,481	5.18
Function area	22	0.78	92,743	0.63
Storage area	5	0.18	118,758	0.80
Service facility	—	—	—	—
Service and equipment area	2	0.07	176,254	1.19
Structural area	8	0.28	565,716	3.82
Vehicle area	—	—	—	—
Outside area	5	0.18	2,500	0.02

Table 3 (continued)

Fire Losses, by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
Institutional				
Total	**12**	**0.43%**	**$ 17,514**	**0.12%**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	7	0.25	17,514	0.12
Storage area	1	0.04	—	—
Service facility	—	—	—	—
Service and equipment area	2	0.07	—	—
Structural area	1	0.04	—	—
Vehicle area	—	—	—	—
Outside area	1	0.04	—	—
Residential				
Total	**918**	**32.67**	**5,887,839**	**39.76**
Means of egress	25	0.89	83,689	0.57
Assembly, sales area	135	4.80	907,494	6.13
Function area	511	18.19	2,379,472	16.07
Storage area	32	1.14	864,877	5.84
Service facility	42	1.49	192,148	1.30
Service and equipment area	41	1.46	259,934	1.76
Structural area	72	2.56	924,707	6.24
Vehicle area	11	0.39	87,107	0.59
Outside area	49	1.74	188,411	1.27
Business and personal service				
Total	**19**	**0.68**	**61,581**	**0.42**
Means of egress	2	0.07	—	—
Assembly, sales area	—	—	—	—
Function area	7	0.25	1,287	0.01
Storage area	1	0.04	21,116	0.14
Service facility	—	—	—	—
Service and equipment area	5	0.18	20,000	0.14
Structural area	3	0.11	15,250	0.10
Vehicle area	—	—	—	—
Outside area	1	0.04	3,928	0.03
Mercantile				
Total	**47**	**1.67**	**658,544**	**4.45**
Means of egress	1	0.04	—	—
Assembly, sales area	1	0.04	12,249	0.08
Function area	13	0.46	13,148	0.09
Storage area	7	0.25	50,000	0.34
Service facility	2	0.07	—	—
Service and equipment area	8	0.28	240,116	1.62
Structural area	6	0.21	16,772	0.11
Vehicle area	5	0.18	320,285	2.16
Outside area	4	0.14	5,974	0.04

Table 3 (continued)

Fire Losses, by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**19**	**0.68%**	**$ 1,510,266**	**10.20%**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	10	0.36	1,340,519	9.05
Storage area	—	—	—	—
Service facility	1	0.04	—	—
Service and equipment area	2	0.07	4,452	0.03
Structural area	3	0.11	164,795	1.11
Vehicle area	—	—	—	—
Outside area	3	0.11	500	—
Industrial storage				
Total	**206**	**7.33**	**1,259,149**	**8.50**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	11	0.39	203,714	1.38
Storage area	66	2.35	381,405	2.58
Service facility	2	0.07	—	—
Service and equipment area	11	0.39	78,895	0.53
Structural area	15	0.53	14,897	0.10
Vehicle area	5	0.18	53,411	0.36
Outside area	96	3.42	526,827	3.56
Miscellaneous				
Total	**246**	**8.75**	**1,033,971**	**6.98**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	31	1.10	204,654	1.38
Storage area	37	1.32	196,027	1.32
Service facility	4	0.14	30,720	0.21
Service and equipment area	8	0.28	81,271	0.55
Structural area	17	0.60	88,820	0.60
Vehicle area	2	0.07	11,443	0.08
Outside area	147	5.23	421,036	2.84
Special property*				
Total	**1,287**	**45.80**	**2,657,217**	**17.94**

Note: The sums of individual items may not always equal the totals due to rounding.

* This category includes automobiles and outdoor property, piers, wharves, structures vacant or under construction; watercraft; rail transport equipment; ground transport vehicles; aircraft; special vehicles, etc.

Table 4

Fire Losses, by Act or Omission, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Act or omission	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,810**	**100.00%**	**$14,808,533**	**100.00%**
Incendiary or set fires	199	7.08	1,531,852	10.34
Misuse of source of ignition	413	14.70	2,765,296	18.67
Misuse of material ignited	122	4.34	841,880	5.69
Mechanical failure	1,156	41.14	4,337,445	29.29
Design deficiency	51	1.81	325,586	2.20
Misuse of equipment	19	0.68	45,354	0.31
Human failing	245	8.72	947,219	6.40
Vehicle accident	19	0.68	39,766	0.27
Miscellaneous	586	20.85	3,974,135	26.84
Assembly				
Total	**56**	**1.99**	**1,722,452**	**11.63**
Incendiary or set fires	11	0.39	760,740	5.14
Misuse of source of ignition	9	0.32	4,170	0.03
Misuse of material ignited	3	0.11	176,254	1.19
Mechanical failure	18	0.64	606,876	4.10
Design deficiency	1	0.04	—	—
Misuse of equipment	—	—	—	—
Human failing	4	0.14	8,973	0.06
Vehicle accident	—	—	—	—
Miscellaneous	10	0.36	165,439	1.12
Institutional				
Total	**12**	**0.43**	**17,514**	**0.12**
Incendiary or set fires	3	0.11	12,114	0.08
Misuse of source of ignition	2	0.07	600	—
Misuse of material ignited	1	0.04	4,800	0.03
Mechanical failure	3	0.11	—	—
Design deficiency	—	—	—	—
Misuse of equipment	1	0.04	—	—
Human failing	1	0.04	—	—
Vehicle accident	—	—	—	—
Miscellaneous	1	0.04	—	—
Residential				
Total	**918**	**32.67**	**5,887,839**	**39.76**
Incendiary or set fires	50	1.78	486,238	3.28
Misuse of source of ignition	195	6.94	1,677,470	11.33
Misuse of material ignited	67	2.38	279,440	1.89
Mechanical failure	211	7.51	1,256,973	8.49
Design deficiency	34	1.21	174,479	1.18
Misuse of equipment	10	0.36	21,556	0.15
Human failing	207	7.37	586,806	3.96
Vehicle accident	—	—	—	—
Miscellaneous	144	5.12	1,404,877	9.49

Table 4 (continued)

Fire Losses, by Act or Omission, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Act or omission	Number of fires	Percent	Dollar loss	Percent
Business and personal service				
Total	**19**	**0.68%**	**$ 61,581**	**0.42%**
Incendiary or set fires	5	0.18	25,044	0.17
Misuse of source of ignition	2	0.07	500	—
Misuse of material ignited	1	0.04	—	—
Mechanical failure	6	0.21	11,750	0.08
Design deficiency	1	0.04	3,500	0.02
Misuse of equipment	—	—	—	—
Human failing	1	0.04	—	—
Vehicle accident	—	—	—	—
Miscellaneous	3	0.11	20,787	0.14
Mercantile				
Total	**47**	**1.67**	**658,544**	**4.45**
Incendiary or set fires	6	0.21	—	—
Misuse of source of ignition	8	0.28	428,441	2.89
Misuse of material ignited	1	0.04	1,000	0.01
Mechanical failure	11	0.39	155,831	1.05
Design deficiency	3	0.11	—	—
Misuse of equipment	1	0.04	—	—
Human failing	—	—	—	—
Vehicle accident	—	—	—	—
Miscellaneous	17	0.60	73,272	0.49
Industrial manufacturing				
Total	**19**	**0.68**	**1,510,266**	**10.20**
Incendiary or set fires	2	0.07	—	—
Misuse of source of ignition	3	0.11	500	—
Misuse of material ignited	1	0.04	164,795	1.11
Mechanical failure	5	0.18	4,452	0.03
Design deficiency	—	—	—	—
Misuse of equipment	—	—	—	—
Human failing	3	0.11	317,569	2.14
Vehicle accident	—	—	—	—
Miscellaneous	5	0.18	1,022,950	6.91
Industrial storage				
Total	**206**	**7.33**	**1,259,149**	**8.50**
Incendiary or set fires	19	0.68	24,365	0.16
Misuse of source of ignition	40	1.42	74,671	0.50
Misuse of material ignited	15	0.53	148,637	1.00
Mechanical failure	23	0.82	250,559	1.69
Design deficiency	7	0.25	111,368	0.75
Misuse of equipment	1	0.04	—	—
Human failing	3	0.11	—	—
Vehicle accident	—	—	—	—
Miscellaneous	98	3.49	649,549	4.39

Table 4 (continued)

Fire Losses, by Act or Omission, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Act or omission	Number of fires	Percent	Dollar loss	Percent
Special property				
Total	**1,287**	**45.80%**	**$ 2,657,217**	**17.94%**
Incendiary or set fires	81	2.88	199,978	1.35
Misuse of source of ignition	83	2.95	208,482	1.41
Misuse of material ignited	29	1.03	44,166	0.30
Mechanical failure	844	30.04	1,739,808	11.75
Design deficiency	1	0.04	1,200	0.01
Misuse of equipment	3	0.11	—	—
Human failing	18	0.64	26,271	0.18
Vehicle accident	18	0.64	39,331	0.27
Miscellaneous	210	7.47	397,981	2.69
Miscellaneous				
Total	**246**	**8.75**	**1,033,971**	**6.98**
Incendiary or set fires	22	0.78	23,373	0.16
Misuse of source of ignition	71	2.53	370,462	2.50
Misuse of material ignited	4	0.14	22,788	0.15
Mechanical failure	35	1.25	311,196	2.10
Design deficiency	4	0.14	35,039	0.24
Misuse of equipment	3	0.11	23,798	0.16
Human failing	8	0.28	7,600	0.05
Vehicle accident	1	0.04	435	—
Miscellaneous	98	3.49	239,280	1.62

Note: The sums of individual items may not always equal the totals due to rounding.

Table 5

Fire Losses, by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,810**	**100.00%**	**$14,808,533**	**100.00%**
Heating equipment	185	6.58	1,403,194	9.48
Cooking equipment	250	8.90	742,633	5.01
Smokers' materials	151	5.37	2,134,762	14.42
Electrical distribution equipment	462	16.44	2,426,352	16.38
Electrical appliances	84	2.99	187,513	1.27
Other appliances	383	13.63	770,647	5.20
Open flames	273	9.72	1,683,340	11.37
Exposure	242	8.61	613,724	4.14
Miscellaneous	780	27.76	4,846,368	32.73

Table 5 (continued)

Fire Losses, by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Assembly				
Total	**56**	**1.99%**	**$ 1,722,452**	**11.63%**
Heating equipment	5	0.18	176,254	1.19
Cooking equipment	11	0.39	84,743	0.57
Smokers' materials	6	0.21	751,968	5.08
Electrical distribution equipment	9	0.32	577,787	3.90
Electrical appliances	3	0.11	2,442	0.02
Other appliances	—	—	—	—
Open flames	6	0.21	—	—
Exposure	2	0.07	2,500	0.02
Miscellaneous	14	0.50	126,758	0.86
Institutional				
Total	**12**	**0.43**	**17,514**	**0.12**
Heating equipment	1	0.04	—	—
Cooking equipment	1	0.04	4,800	0.03
Smokers' materials	4	0.14	800	0.01
Electrical distribution equipment	2	0.07	—	—
Electrical appliances	—	—	—	—
Other appliances	1	0.04	—	—
Open flames	2	0.07	11,914	0.08
Exposure	—	—	—	—
Miscellaneous	1	0.04	—	—
Residential				
Total	**918**	**32.67**	**5,887,839**	**39.76**
Heating equipment	131	4.66	1,040,576	7.03
Cooking equipment	222	7.90	549,677	3.71
Smokers' materials	99	3.52	1,301,104	8.79
Electrical distribution equipment	81	2.88	665,348	4.49
Electrical appliances	49	1.74	126,816	0.86
Other appliances	33	1.17	91,340	0.62
Open flames	119	4.23	573,218	3.87
Exposure	30	1.07	178,776	1.21
Miscellaneous	154	5.48	1,360,984	9.19
Business and personal service				
Total	**19**	**0.68**	**61,581**	**0.42**
Heating equipment	2	0.07	—	—
Cooking equipment	—	—	—	—
Smokers' materials	1	0.04	500	—
Electrical distribution equipment	2	0.07	11,750	0.08
Electrical appliances	3	0.11	—	—
Other appliances	—	—	—	—
Open flames	5	0.18	24,616	0.17
Exposure	2	0.07	4,715	0.03
Miscellaneous	4	0.14	20,000	0.14

Table 5 (continued)

Fire Losses, by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Mercantile				
Total	**47**	**1.67%**	**$ 658,544**	**4.45%**
Heating equipment	6	0.21	106,655	0.72
Cooking equipment	2	0.07	—	—
Smokers' materials	2	0.07	—	—
Electrical distribution equipment	5	0.18	41,427	0.28
Electrical appliances	—	—	—	—
Other appliances	3	0.11	12,249	0.08
Open flames	8	0.28	428,441	2.89
Exposure	3	0.11	953	0.01
Miscellaneous	18	0.64	68,819	0.46
Industrial manufacturing				
Total	**19**	**0.68**	**1,510,266**	**10.20**
Heating equipment	2	0.07	539	—
Cooking equipment	2	0.07	—	—
Smokers' materials	—	—	—	—
Electrical distribution equipment	3	0.11	4,452	0.03
Electrical appliances	—	—	—	—
Other appliances	1	0.04	—	—
Open flames	2	0.07	—	—
Exposure	2	0.07	500	—
Miscellaneous	7	0.25	1,504,775	10.16
Industrial storage				
Total	**206**	**7.33**	**1,259,149**	**8.50**
Heating equipment	11	0.39	40,112	0.27
Cooking equipment	3	0.11	100,000	0.68
Smokers' materials	2	0.07	1,280	0.01
Electrical distribution equipment	15	0.53	207,499	1.40
Electrical appliances	4	0.14	3,920	0.03
Other appliances	4	0.14	42,353	0.29
Open flames	32	1.14	123,853	0.84
Exposure	66	2.35	87,283	0.59
Miscellaneous	69	2.46	652,849	4.41
Special property				
Total	**1,287**	**45.80**	**2,657,217**	**17.94**
Heating equipment	17	0.60	16,121	0.11
Cooking equipment	7	0.25	2,544	0.02
Smokers' materials	36	1.28	78,760	0.53
Electrical distribution equipment	320	11.39	654,248	4.42
Electrical appliances	16	0.57	18,935	0.13
Other appliances	341	12.14	624,705	4.22
Open flames	64	2.28	234,107	1.58
Exposure	58	2.06	167,373	1.13
Miscellaneous	428	15.23	860,424	5.81

Table 5 (continued)

Fire Losses, by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**246**	**8.75%**	**$ 1,033,971**	**6.98%**
Heating equipment	10	0.36	22,937	0.15
Cooking equipment	2	0.07	869	0.01
Smokers' materials	1	0.04	350	—
Electrical distribution equipment	25	0.89	263,841	1.78
Electrical appliances	9	0.32	35,400	0.24
Other appliances	—	—	—	—
Open flames	35	1.25	287,191	1.94
Exposure	79	2.81	171,624	1.16
Miscellaneous	85	3.02	251,759	1.70

Note: The sums of individual items may not always equal the totals due to rounding.

Table 6

Fire Losses, by Material First Ignited, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Material first ignited	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,810**	**100.00%**	**$14,808,533**	**100.00%**
Building materials	264	9.40	1,892,673	12.78
Furnishings	187	6.65	1,604,479	10.83
Clothing, textiles	74	2.63	87,358	0.59
Wood, paper products	136	4.84	1,223,747	8.26
Flammable liquids	453	16.12	2,579,360	17.42
Flammable gases	67	2.38	129,043	0.87
Chemicals	23	0.82	49,102	0.33
Agricultural, forestry products	194	6.90	949,687	6.41
Miscellaneous	1,412	50.25	6,293,084	42.50
Assembly				
Total	**56**	**1.99**	**1,722,452**	**11.63**
Building materials	5	0.18	3,274	0.02
Furnishings	2	0.07	1,670	0.01
Clothing, textiles	2	0.07	—	—
Wood, paper products	7	0.25	176,254	1.19
Flammable liquids	9	0.32	825,415	5.57
Flammable gases	1	0.04	858	0.01
Chemicals	1	0.04	2,442	0.02
Agricultural, forestry products	3	0.11	—	—
Miscellaneous	26	0.93	712,539	4.81

Table 6 (continued)

Fire Losses, by Material First Ignited, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Institutional				
Total	**2**	**0.43%**	**$ 17,514**	**0.12%**
Building materials	1	0.04	—	—
Furnishings	5	0.18	12,714	0.09
Clothing, textiles	1	0.04	—	—
Wood, paper products	—	—	—	—
Flammable liquids	—	—	—	—
Flammable gases	1	0.04	—	—
Chemicals	1	0.04	4,800	0.03
Agricultural, forestry products	—	—	—	—
Miscellaneous	3	0.11	—	—
Residential				
Total	**918**	**32.67**	**5,887,839**	**39.76**
Building materials	121	4.31	1,066,369	7.20
Furnishings	151	5.37	1,556,617	10.51
Clothing, textiles	42	1.49	69,323	0.47
Wood, paper products	62	2.21	555,660	3.75
Flammable liquids	171	6.09	548,555	3.70
Flammable gases	25	0.89	41,983	0.28
Chemicals	12	0.43	14,966	0.10
Agricultural, forestry products	14	0.50	40,401	0.27
Miscellaneous	320	11.39	1,993,965	13.46
Business and personal service				
Total	**19**	**0.68**	**61,581**	**0.42**
Building materials	3	0.11	7,428	0.05
Furnishings	—	—	—	—
Clothing, textiles	1	0.04	—	—
Wood, paper products	5	0.18	41,616	0.28
Flammable liquids	1	0.04	—	—
Flammable gases	—	—	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	—	—	—	—
Miscellaneous	9	0.32	12,537	0.08
Mercantile				
Total	**47**	**1.67**	**658,544**	**4.45**
Building materials	10	0.36	27,940	0.19
Furnishings	1	0.04	1,880	0.01
Clothing, textiles	1	0.04	—	—
Wood, paper products	5	0.18	953	0.01
Flammable liquids	9	0.32	527,066	3.56
Flammable gases	—	—	—	—
Chemicals	2	0.07	12,249	0.08
Agricultural, forestry products	—	—	—	—
Miscellaneous	19	0.68	88,456	0.60

Table 6 (continued)

Fire Losses, by Material First Ignited, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**19**	**0.68%**	**$ 1,510,266**	**10.20%**
Building materials	4	0.14	—	—
Furnishings	—	—	—	—
Clothing, textiles	2	0.07	539	—
Wood, paper products	3	0.11	169,247	1.14
Flammable liquids	2	0.07	—	—
Flammable gases	1	0.04	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	2	0.07	317,530	2.14
Miscellaneous	5	0.18	1,022,950	6.91
Industrial storage				
Total	**206**	**7.33**	**1,259,149**	**8.50**
Building materials	43	1.53	449,014	3.03
Furnishings	5	0.18	5,997	0.04
Clothing, textiles	2	0.07	1,780	0.01
Wood, paper products	16	0.57	199,408	1.35
Flammable liquids	11	0.39	9,110	0.06
Flammable gases	5	0.18	15,741	0.11
Chemicals	2	0.07	2,351	0.02
Agricultural, forestry products	18	0.64	48,002	0.32
Miscellaneous	104	3.70	527,746	3.56
Special property				
Total	**1,287**	**45.80**	**2,657,217**	**17.94**
Building materials	29	1.03	100,260	0.68
Furnishings	22	0.78	25,251	0.17
Clothing, textiles	19	0.68	7,216	0.05
Wood, paper products	21	0.75	13,789	0.09
Flammable liquids	245	8.72	521,993	3.52
Flammable gases	31	1.10	68,051	0.46
Chemicals	5	0.18	12,294	0.08
Agricultural, forestry products	90	3.20	312,763	2.11
Miscellaneous	825	29.36	1,595,600	10.77
Miscellaneous				
Total	**246**	**8.75**	**1,033,971**	**6.98**
Building materials	48	1.71	238,388	1.61
Furnishings	1	0.04	350	—
Clothing, textiles	4	0.14	8,500	0.06
Wood, paper products	17	0.60	66,820	0.45
Flammable liquids	5	0.18	147,221	0.99
Flammable gases	3	0.11	2,410	0.02
Chemicals	—	—	—	—
Agricultural, forestry products	67	2.38	230,991	1.56
Miscellaneous	101	3.59	339,291	2.29

Note: The sums of individual items may not always equal the totals due to rounding.

Table 7

Fire Losses, by Fuel or Energy, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,810**	**100.00%**	**$14,808,533**	**100.00%**
Coal, wood	432	15.37	2,228,287	15.05
Fuel oil	30	1.07	574,800	3.88
Gasoline	398	14.16	1,604,426	10.83
Natural gas	58	2.06	480,281	3.24
Propane, etc.	76	2.70	516,132	3.49
Smokers' materials	276	9.82	1,783,246	12.04
Electricity	723	25.73	2,967,271	20.04
Lightning	27	0.96	70,312	0.47
Unclassified	95	3.38	303,172	2.05
Unknown	695	24.73	4,280,606	28.91
Assembly				
Total	**56**	**1.99**	**1,722,452**	**11.63**
Coal, wood	6	0.21	178,754	1.21
Fuel oil	—	—	—	—
Gasoline	1	0.04	750,298	5.07
Natural gas	5	0.18	—	—
Propane, etc.	—	—	—	—
Smokers' materials	6	0.21	1,670	0.01
Electricity	12	0.43	589,202	3.98
Lightning	—	—	—	—
Unclassified	5	0.18	28,231	0.19
Unknown	21	0.75	174,297	1.18
Institutional				
Total	**12**	**0.43**	**17,514**	**0.12**
Coal, wood	—	—	—	—
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	2	0.07	—	—
Propane, etc.	1	0.04	—	—
Smokers' materials	5	0.18	12,714	0.09
Electricity	3	0.11	4,800	0.03
Lightning	—	—	—	—
Unclassified	—	—	—	—
Unknown	1	0.04	—	—
Residential				
Total	**918**	**32.67**	**5,887,839**	**39.76**
Coal, wood	156	5.55	1,290,272	8.71
Fuel oil	12	0.43	86,163	0.58
Gasoline	20	0.71	99,613	0.67
Natural gas	46	1.64	130,990	0.88
Propane, etc.	29	1.03	86,477	0.58
Smokers' materials	170	6.05	1,617,283	10.92
Electricity	326	11.60	1,174,865	7.93
Lightning	5	0.18	9,198	0.06
Unclassified	24	0.85	67,604	0.46
Unknown	130	4.63	1,325,374	8.95

Table 7 (continued)

Fire Losses, by Fuel or Energy, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Business and personal service				
Total	**19**	**0.68%**	**$ 61,581**	**0.42%**
Coal, wood	4	0.14	23,928	0.16
Fuel oil	2	0.07	–	–
Gasoline	–	–	–	–
Natural gas	–	–	–	–
Propane, etc.	–	–	–	–
Smokers' materials	1	0.04	500	–
Electricity	5	0.18	11,750	0.08
Lightning	–	–	–	–
Unclassified	1	0.04	3,500	0.02
Unknown	6	0.21	21,903	0.15
Mercantile				
Total	**47**	**1.67**	**658,544**	**4.45**
Coal, wood	11	0.39	7,103	0.05
Fuel oil	2	0.07	391,005	2.64
Gasoline	1	0.04	66,282	0.45
Natural gas	1	0.04	–	–
Propane, etc.	4	0.14	71,659	0.48
Smokers' materials	2	0.07	–	–
Electricity	6	0.21	53,726	0.36
Lightning	2	0.07	–	–
Unclassified	3	0.11	5,021	0.03
Unknown	15	0.53	63,748	0.43
Industrial manufacturing				
Total	**19**	**0.68**	**1,510,266**	**10.20**
Coal, wood	3	0.11	500	–
Fuel oil	–	–	–	–
Gasoline	–	–	–	–
Natural gas	2	0.07	317,030	2.14
Propane, etc.	–	–	–	–
Smokers' materials	1	0.04	–	–
Electricity	4	0.14	4,991	0.03
Lightning	–	–	–	–
Unclassified	1	0.04	–	–
Unknown	8	0.28	1,187,745	8.02
Industrial storage				
Total	**206**	**7.33**	**1,259,149**	**8.50**
Coal, wood	91	3.24	361,066	2.44
Fuel oil	1	0.04	–	–
Gasoline	6	0.21	21,960	0.15
Natural gas	–	–	–	–
Propane, etc.	7	0.25	42,283	0.29
Smokers' materials	16	0.57	17,793	0.12
Electricity	17	0.60	224,481	1.52
Lightning	5	0.18	24,500	0.17
Unclassified	10	0.36	43,390	0.29
Unknown	53	1.89	523,676	3.54

Table 7 (continued)

Fire Losses, by Fuel or Energy, According to Property Classification, Saskatchewan, 1987

This table is based on (insurance paid to date)

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Special property				
Total	**1,287**	**45.80%**	**$ 2,657,217**	**17.94%**
Coal, wood	66	2.35	153,579	1.04
Fuel oil	10	0.36	84,882	0.57
Gasoline	370	13.17	666,273	4.50
Natural gas	—	—	—	—
Propane, etc.	28	1.00	98,267	0.66
Smokers' materials	58	2.06	110,072	0.74
Electricity	317	11.28	641,942	4.33
Lightning	4	0.14	1,500	0.01
Unclassified	39	1.39	110,873	0.75
Unknown	395	14.06	789,829	5.33
Miscellaneous				
Total	**246**	**8.75**	**1,033,971**	**6.98**
Coal, wood	95	3.38	213,085	1.44
Fuel oil	3	0.11	12,750	0.09
Gasoline	—	—	—	—
Natural gas	2	0.07	32,261	0.22
Propane, etc.	7	0.25	217,446	1.47
Smokers' materials	17	0.60	23,214	0.16
Electricity	33	1.17	261,514	1.77
Lightning	11	0.39	35,114	0.24
Unclassified	12	0.43	44,553	0.30
Unknown	66	2.35	194,034	1.31

Note: The sums of individual items may not always equal the totals due to rounding.

Table 8

Fire Losses, by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Area of origin of fire	Number of fires	Dollar loss
All types of residences		
Total	**918**	**$5,887,839**
Means of egress	25	83,689
Assembly, sales area	135	907,494
Function area	511	2,379,472
Storage area	34	864,877
Service facility	42	192,148
Service and equipment area	41	259,934
Structural area	72	924,707
Vehicle area	9	87,107
Outside area or unknown	49	188,411

Table 8 (continued)

Fire Losses, by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Area of origin of fire	Number of fires	Dollar loss
One and two family residences		
Total	**716**	**$ 4,193,530**
Means of egress	17	82,589
Assembly, sales area	112	878,178
Function area	397	1,557,906
Storage area	24	222,062
Service facility	38	180,148
Service and equipment area	37	254,465
Structural area	56	842,556
Vehicle area	—	—
Outside area or unknown	35	175,626
Apartment		
Total	**94**	**636,937**
Means of egress	3	600
Assembly, sales area	15	14,632
Function area	64	539,166
Storage area	4	29,459
Service facility	—	—
Service and equipment area	2	—
Structural area	5	53,080
Vehicle area	—	—
Outside area or unknown	1	—
Rooming or boarding house		
Total	**1**	**—**
Means of egress	—	—
Assembly, sales area	1	—
Function area	—	—
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	—	—
Hotel, inn or lodge		
Total	**16**	**688,620**
Means of egress	1	500
Assembly, sales area	—	—
Function area	11	78,025
Storage area	2	609,095
Service facility	—	—
Service and equipment area	—	—
Structural area	2	1,000
Vehicle area	—	—
Outside area or unknown	—	—

Table 8 (continued)

Fire Losses, by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Area of origin of fire	Number of fires	Dollar loss
Motor hotel or motel		
Total	**4**	**$ 3,248**
Means of egress	1	—
Assembly, sales area	1	3,248
Function area	1	—
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	1	—
Vehicle area	—	—
Outside area or unknown	—	—
Dormitory		
Total	**8**	**8,379**
Means of egress	—	—
Assembly, sales area	—	—
Function area	5	8,379
Storage area	1	—
Service facility	1	—
Service and equipment area	—	—
Structural area	1	—
Vehicle area	—	—
Outside area or unknown	—	—
Mobile home or trailer		
Total	**76**	**354,462**
Means of egress	3	—
Assembly, sales area	6	11,436
Function area	32	193,333
Storage area	3	4,261
Service facility	3	12,000
Service and equipment area	2	5,469
Structural area	7	28,071
Vehicle area	9	87,107
Outside area or unknown	11	12,785
Miscellaneous		
Total	**3**	**2,663**
Means of egress	—	—
Assembly, sales area	—	—
Function area	1	2,663
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	2	—

Table 9

Fire Losses, by Act or Omission, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Act or omission	Number of fires	Dollar loss
All types of residences		
Total	**918**	**$5,887,839**
Arson and other fires	50	486,238
Misuse of heat	195	1,677,470
Misuse of materials	67	279,440
Malfunction	211	1,256,973
Deficiencies	34	174,479
Misuse of equipment	10	21,556
Human failings	207	586,806
Vehicle accidents	—	—
Unknown or miscellaneous	144	1,404,877
One and two family residences		
Total	**716**	**4,193,530**
Arson and other fires	32	328,883
Misuse of heat	147	733,965
Misuse of materials	60	209,124
Malfunction	171	1,068,212
Deficiencies	28	157,540
Misuse of equipment	5	11,645
Human failings	167	440,831
Vehicle accidents	—	—
Unknown or miscellaneous	106	1,243,330
Apartment		
Total	**94**	**636,937**
Arson and other fires	10	86,373
Misuse of heat	33	328,104
Misuse of materials	3	67,500
Malfunction	8	9,251
Deficiencies	—	—
Misuse of equipment	2	400
Human failings	28	91,366
Vehicle accidents	—	—
Unknown or miscellaneous	10	53,943
Rooming or boarding house		
Total	1	—
Arson and other fires	—	—
Misuse of heat	—	—
Misuse of materials	1	—
Malfunction	—	—
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	—	—
Vehicle accidents	—	—
Unknown or miscellaneous	—	—

Table 9 (continued)

Fire Losses, by Act or Omission, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Act or omission	Number of fires	Dollar loss
Hotel, inn or lodge		
Total	**16**	**$ 688,620**
Arson and other fires	3	27,595
Misuse of heat	5	607,288
Misuse of materials	–	–
Malfunction	2	–
Deficiencies	–	–
Misuse of equipment	–	–
Human failings	2	–
Vehicle accidents	–	–
Unknown or miscellaneous	4	53,737
Motor hotel or motel		
Total	**4**	**3,248**
Arson and other fires	–	–
Misuse of heat	2	3,248
Misuse of materials	1	–
Malfunction	1	–
Deficiencies	–	–
Misuse of equipment	–	–
Human failings	–	–
Vehicle accidents	–	–
Unknown or miscellaneous	–	–
Dormitory		
Total	**8**	**8,379**
Arson and other fires	1	–
Misuse of heat	–	–
Misuse of materials	1	–
Malfunction	1	–
Deficiencies	2	–
Misuse of equipment	–	–
Human failings	–	–
Vehicle accidents	–	–
Unknown or miscellaneous	3	8,379
Mobile home or trailer		
Total	**76**	**354,462**
Arson and other fires	4	43,387
Misuse of heat	6	4,865
Misuse of materials	1	153
Malfunction	28	179,510
Deficiencies	4	16,939
Misuse of equipment	3	9,511
Human failings	10	54,609
Vehicle accidents	–	–
Unknown or miscellaneous	20	45,488

Table 9 (continued)

Fire Losses, by Act or Omission, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Act or omission	Number of fires	Dollar loss
Miscellaneous		
Total	**3**	**$ 2,663**
Arson and other fires	—	—
Misuse of heat	1	—
Misuse of materials	1	2,663
Malfunction	—	—
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	—	—
Vehicle accidents	—	—
Unknown or miscellaneous	1	—

Table 10

Fire Losses, by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Dollar loss
All types of residences		
Total	**918**	**$5,887,839**
Heating equipment	131	1,040,576
Cooking equipment	222	549,677
Smokers' materials	99	1,301,104
Electric distribution equipment	81	665,348
Electric appliances	49	126,816
Non-electric appliances	33	91,340
Open flames	119	573,218
Exposure	30	178,776
Unknown or miscellaneous	154	1,360,984
One and two family residences		
Total	**716**	**4,193,530**
Heating equipment	116	991,444
Cooking equipment	179	370,366
Smokers' materials	65	330,857
Electric distribution equipment	64	594,721
Electric appliances	43	88,043
Non-electric appliances	22	55,133
Open flames	97	542,648
Exposure	21	170,431
Unknown or miscellaneous	109	1,049,887

Table 10 (continued)

Fire Losses, by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Dollar loss
Apartment		
Total	**94**	**$ 636,937**
Heating equipment	—	—
Cooking equipment	32	124,549
Smokers' materials	26	359,711
Electric distribution equipment	4	7,100
Electric appliances	1	1,500
Non-electric appliances	1	—
Open flames	14	10,675
Exposure	—	—
Unknown or miscellaneous	16	133,402
Rooming or boarding house		
Total	**1**	**—**
Heating equipment	—	—
Cooking equipment	—	—
Smokers' materials	1	—
Electric distribution equipment	—	—
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	—	—
Exposure	—	—
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**16**	**688,620**
Heating equipment	—	—
Cooking equipment	1	—
Smokers' materials	5	607,288
Electric distribution equipment	—	—
Electric appliances	1	—
Non-electric appliances	1	—
Open flames	1	—
Exposure	—	—
Unknown or miscellaneous	7	81,332
Motor hotel or motel		
Total	**4**	**3,248**
Heating equipment	1	—
Cooking equipment	—	—
Smokers' materials	2	3,248
Electric distribution equipment	1	—
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	—	—
Exposure	—	—
Unknown or miscellaneous	—	—

Table 10 (continued)

Fire Losses, by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Source of heat of ignition	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 8,379**
Heating equipment	2	–
Cooking equipment	1	–
Smokers' materials	–	–
Electric distribution equipment	1	–
Electric appliances	–	–
Non-electric appliances	–	–
Open flames	–	–
Exposure	1	–
Unknown or miscellaneous	3	8,379
Mobile home or trailer		
Total	**76**	**354,462**
Heating equipment	11	46,469
Cooking equipment	9	54,762
Smokers' materials	–	–
Electric distribution equipment	11	63,527
Electric appliances	4	37,273
Non-electric appliances	9	36,207
Open flames	7	19,895
Exposure	7	8,345
Unknown or miscellaneous	18	87,984
Miscellaneous		
Total	**3**	**2,663**
Heating equipment	1	2,663
Cooking equipment	–	–
Smokers' materials	–	–
Electric distribution equipment	–	–
Electric appliances	–	–
Non-electric appliances	–	–
Open flames	–	–
Exposure	1	–
Unknown or miscellaneous	1	–

Table 11

Fire Losses, by Material First Ignited, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Material first ignited	Number of fires	Dollar loss
All types of residences		
Total	**918**	**$5,887,839**
Structural	121	1,066,369
Furniture	151	1,556,617
Clothing or textiles	42	69,323
Wood products	62	555,660
Flammable liquids	171	548,555
Flammable gases	25	41,983
Chemicals	12	14,966
Agricultural	14	40,401
Unknown or miscellaneous	320	1,993,965
One and two family residences		
Total	**716**	**4,193,530**
Structural	95	983,169
Furniture	108	591,905
Clothing or textiles	36	59,996
Wood products	47	493,751
Flammable liquids	138	278,115
Flammable gases	18	33,203
Chemicals	12	14,966
Agricultural	10	37,188
Unknown or miscellaneous	252	1,701,237
Apartment		
Total	**94**	**636,937**
Structural	3	3,961
Furniture	33	361,132
Clothing or textiles	4	4,224
Wood products	9	29,873
Flammable liquids	15	123,898
Flammable gases	1	–
Chemicals	–	–
Agricultural	–	–
Unknown or miscellaneous	29	113,849
Rooming or boarding house		
Total	**1**	**–**
Structural	–	–
Furniture	1	–
Clothing or textiles	–	–
Wood products	–	–
Flammable liquids	–	–
Flammable gases	–	–
Chemicals	–	–
Agricultural	–	–
Unknown or miscellaneous	–	–

Table 11 (continued)

Fire Losses, by Material First Ignited, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Material first ignited	Number of fires	Dollar loss
Hotel, inn or lodge		
Total	**16**	**$ 688,620**
Structural	2	1,000
Furniture	4	582,000
Clothing or textiles	—	—
Wood products	2	27,095
Flammable liquids	2	500
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	6	78,025
Motor hotel or motel		
Total	**4**	**3,248**
Structural	1	—
Furniture	2	3,248
Clothing or textiles	—	—
Wood products	—	—
Flammable liquids	1	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	—	—
Dormitory		
Total	**8**	**8,379**
Structural	2	—
Furniture	—	—
Clothing or textiles	—	—
Wood products	—	—
Flammable liquids	3	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	3	8,379
Mobile home or trailer		
Total	**76**	**354,462**
Structural	18	78,239
Furniture	3	18,332
Clothing or textiles	1	2,440
Wood products	3	4,941
Flammable liquids	12	146,042
Flammable gases	6	8,780
Chemicals	—	—
Agricultural	3	3,213
Unknown or miscellaneous	30	92,475

Table 11 (continued)

Fire Losses, by Material First Ignited, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Material first ignited	Number of fires	Dollar loss
Miscellaneous		
Total	**3**	**$ 2,663**
Structural	—	—
Furniture	—	—
Clothing or textiles	1	2,663
Wood products	1	—
Flammable liquids	—	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	1	—
Unknown or miscellaneous	—	—

Table 12

Fire Losses, by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Form of heat of ignition	Number of fires	Dollar loss
All types of residences		
Total	**918**	**$5,887,839**
Spark or ember	28	36,296
Electrical spark	131	641,267
Static electrical spark	5	8,198
Direct flame	185	949,074
Friction heat	3	3,000
Hot object	295	1,294,867
Spontaneous ignition	11	39,429
Heat-smokers' materials	106	1,271,526
Unknown or miscellaneous	154	1,644,182
One and two family residences		
Total	**716**	**4,193,530**
Spark or ember	23	32,048
Electrical spark	104	570,758
Static electrical spark	5	8,198
Direct flame	148	879,720
Friction heat	3	3,000
Hot object	246	1,024,801
Spontaneous ignition	10	39,429
Heat-smokers' materials	67	302,127
Unknown or miscellaneous	110	1,333,449

Table 12 (continued)

Fire Losses, by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Form of heat of ignition	Number of fires	Dollar loss
Apartment		
Total	**94**	**$ 636,937**
Spark or ember	1	–
Electrical spark	7	9,251
Static electrical spark	–	–
Direct flame	11	7,361
Friction heat	–	–
Hot object	30	123,898
Spontaneous ignition	1	–
Heat-smokers' materials	29	360,111
Unknown or miscellaneous	15	136,316
Rooming or boarding house		
Total	**1**	**–**
Spark or ember	–	–
Electrical spark	–	–
Static electrical spark	–	–
Direct flame	–	–
Friction heat	–	–
Hot object	–	–
Spontaneous ignition	–	–
Heat-smokers' materials	1	–
Unknown or miscellaneous	–	–
Hotel, inn or lodge		
Total	**16**	**688,620**
Spark or ember	–	–
Electrical spark	3	1,000
Static electrical spark	–	–
Direct flame	2	–
Friction heat	–	–
Hot object	–	–
Spontaneous ignition	–	–
Heat-smokers' materials	7	607,288
Unknown or miscellaneous	4	80,332
Motor hotel or motel		
Total	**4**	**3,248**
Spark or ember	1	3,248
Electrical spark	1	–
Static electrical spark	–	–
Direct flame	1	–
Friction heat	–	–
Hot object	–	–
Spontaneous ignition	–	–
Heat-smokers' materials	1	–
Unknown or miscellaneous	–	–

Table 12 (continued)

Fire Losses, by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1987

This table is based on (insurance paid to date)

Form of heat of ignition	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 8,379**
Spark or ember	—	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	1	—
Friction heat	—	—
Hot object	3	—
Spontaneous ignition	—	—
Heat-smokers' materials	—	—
Unknown or miscellaneous	4	8,379
Mobile home or trailer		
Total	**76**	**354,469**
Spark or ember	2	1,000
Electrical spark	16	60,258
Static electrical spark	—	—
Direct flame	22	61,993
Friction heat	—	—
Hot object	15	143,505
Spontaneous ignition	—	—
Heat-smokers' materials	1	2,000
Unknown or miscellaneous	20	85,706
Miscellaneous		
Total	**3**	**2,663**
Spark or ember	1	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	—	—
Friction heat	—	—
Hot object	1	2,663
Spontaneous ignition	—	—
Heat-smokers' materials	—	—
Unknown or miscellaneous	1	—

Table 13

Property Loss Due to Fire, Saskatchewan, 1978 to 1987

This table is based on (insurance paid to date)

Year	Number of fires	Total loss reported	Dollar loss per fire
Ten-year average	**3,046**	**$27,814,602**	**$9,132**
1978	2,650	18,126,409	6,840
1979	3,264	29,037,247	8,896
1980	3,722	48,932,799	13,147
1981	3,257	31,138,114	9,560
1982	3,209	29,361,627	9,150
1983	3,251	31,920,418	9,819
1984	2,789	35,469,311	12,718
1985	2,797	25,747,955	9,206
1986	2,720	13,603,615	5,001
1987	2,810	14,808,533	5,270

Table 14

Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1987

Urban municipality	Population*	Property loss†	Number of fires	Per capita loss
Total	**626,729**	**$4,771,490**	**1,319**	**$ 7.61**
Assiniboia	3,001	31,318	3	10.44
Battleford	3,833	12,689	7	3.31
Biggar	2,626	13,100	5	4.99
Buffalo Narrows	1,278	13,043	6	10.21
Canora	2,602	5,140	4	1.98
Carlyle	1,172	3,749	3	3.20
Carnduff	1,090	2,900	1	2.66
Carrot River	1,101	—	1	—
Churchbridge	1,035	—	—	—
Creighton	1,592	—	1	—
Cumberland House	1,049	—	1	—
Dalmeny	1,328	1,126	1	0.85
Davidson	1,183	17,627	5	14.90
Esterhazy	3,083	—	2	—
Estevan	10,161	87,294	14	8.59
Eston	1,383	—	3	—
Foam Lake	1,535	—	—	—
Fort Qu'Appelle	1,915	74,985	4	39.16
Gravelbourg	1,305	104,554	1	80.12
Grenfell	1,274	—	1	—
Gull Lake	1,164	50,610	1	43.48
Hudson Bay	2,133	5,366	5	2.52
Humboldt	5,089	21,775	17	4.28
Ile a la Crosse	1,253	33,014	3	26.35
Indian Head	1,886	—	1	—

Table 14 (continued)

Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1987

Urban municipality	Population*	Property loss†	Number of fires	Per capita loss
Kamsack	2,565	$ 11,750	2	$ 4.58
Kelvington	1,084	35,110	5	32.39
Kerrobert	1,288	29,194	3	22.67
Kindersley	4,912	2,133	6	0.43
Kipling	1,033	—	—	—
Langenburg	1,371	—	—	—
Langham	1,193	18,662	4	15.64
Lanigan	1,698	270	2	0.16
LaLoche	1,847	11,854	7	6.42
La Ronge	2,670	14,973	4	5.61
Leader	1,130	1,814	1	1.61
Lloydminster‡	7,155	28,781	14	4.02
Lumsden	1,369	5,021	3	3.67
Macklin	1,131	6,188	3	5.47
Maidstone	1,112	6,379	3	5.74
Maple Creek	2,452	8,601	5	3.51
Martensville	2,760	3,900	4	1.41
Meadow Lake	3,976	63,533	19	15.98
Melfort	6,078	169,051	7	27.81
Melville	5,123	15,106	15	2.95
Moose Jaw	35,073	816,117	69	23.27
Moosomin	2,557	—	1	—
Nipawin	4,588	6,648	9	1.45
North Battleford	14,876	115,108	50	7.74
Outlook	2,137	8,230	5	3.85
Oxbow	1,229	17,586	4	14.31
Pilot Butte	1,387	—	1	—
Preeceville	1,272	5,015	1	3.94
Prince Albert	33,686	116,863	59	3.47
Regina	175,064	1,326,652	325	7.58
Rosetown	2,663	4,360	5	1.64
Rosthern	1,594	3,400	3	2.13
Saskatoon	177,641	1,117,043	478	6.29
Shaunavon	2,153	26,000	3	12.08
Shellbrook	1,238	—	—	—
Spiritwood	1,025	4,085	2	3.99
Swift Current	15,666	93,932	27	6.00
Tisdale	3,184	6,545	9	2.06
Unity	2,471	10,199	7	4.13
Uranium City	2,748	—	1	—
Wadena	1,602	283	1	0.18
Wakaw	1,010	50,000	2	49.50
Warman	2,455	—	1	—
Watrous	1,953	38,671	6	19.80
Weyburn	10,153	49,863	20	4.91
Whitewood	1,107	975	4	0.88
Wilkie	1,526	14,365	4	9.41
Wynyard	2,079	510	1	0.25
Yorkton	15,574	28,429	24	1.83

* Source: 1987 Municipal Directory

† Based on reports of fire insurance company adjusters and fire chiefs.

‡ Includes only Saskatchewan portion of Lloydminster.

Table 15

Number of Fire Fatalities, by Age and Sex, Saskatchewan, 1987

	Total fatalities	Age groups						
		0-5	6-15	16-18	19-39	40-64	65 and over	Un-known
Total	**33**	**8**	**5**	**–**	**9**	**6**	**5**	**–**
Total children	**13**	**8**	**5**	**–**	**–**	**–**	**–**	**–**
Male	8	5	3	–	–	–	–	–
Female	5	3	2	–	–	–	–	–
Total adults	**20**	**–**	**–**	**–**	**9**	**6**	**5**	**–**
Male	13	–	–	–	6	3	4	–
Female	7	–	–	–	3	3	1	–

Table 16

Number of Fire Injuries, by Age and Sex, Saskatchewan, 1987

	Total injuries	Age groups						
		0-5	6-15	16-18	19-39	40-64	65 and over	Un-known
Total	**65**	**5**	**6**	**3**	**28**	**19**	**4**	**–**
Total children	**14**	**5**	**6**	**3**	**–**	**–**	**–**	**–**
Male	9	3	4	2	–	–	–	–
Female	5	2	2	1	–	–	–	–
Total adults	**51**	**–**	**–**	**–**	**28**	**19**	**4**	**–**
Male	38	–	–	–	19	16	3	–
Female	13	–	–	–	9	3	1	–

Table 17

Fire Deaths and Injuries Due to Careless Use of Flammable Liquids, Saskatchewan, 1978 to 1987

Year	Total deaths	Deaths due to careless use of flammable liquids	Total injuries	Injuries due to careless use of flammable liquids
Ten-year average	**33**	**3**	**53**	**13**
1978	41	8	46	11
1979	46	1	39	11
1980	39	8	34	9
1981	32	2	65	10
1982	40	3	35	9
1983	30	—	46	21
1984	26	4	73	24
1985	21	3	76	17
1986	21	5	56	13
1987	33	5	65	9

Table 18

Fire Fatalities by Time of Day, Saskatchewan, 1987

Time of day	Total	Men	Women	Children
Total	**33**	**13**	**7**	**13**
12 a.m. - 6 a.m.	12	8	2	2
6 a.m. - 12 p.m.	14	2	3	9
12 p.m. - 6 p.m.	3	2	1	—
6 p.m. - 12 a.m.	2	—	—	2
Unknown	2	1	1	—

Table 19

Circumstances Contributing to Fire Casualties, Saskatchewan, 1987

Circumstances	Number of fatalities	Number of injuries
Condition of casualty at time of fire		
Total	**33**	**65**
Not applicable	3	26
Asleep at time of fire	14	19
Bedridden or other physical or mental handicap	–	2
Impaired by alcohol	2	2
Impaired by drugs	–	–
Under restraint or detention	–	–
Too young to act	5	2
Senile	–	–
Left unattended (children)	–	2
Unclassified or unknown	9	12
Action of casualty at time of fire		
Total	**33**	**65**
Not applicable	13	11
Injured while trying to escape	2	18
Overexertion, heart attack, etc.	–	–
Voluntarily entered or remained for rescue	–	5
Voluntarily entered or remained for firefighting	–	5
Voluntarily entered or remained to save property	–	7
Loss of judgment, panic	3	1
Received delayed warning	2	6
Unclassified or unknown	13	12
Ignition of clothing or other fabrics		
Total	**33**	**65**
Not applicable	20	40
Outer clothing	1	7
Sleepwear	1	–
Underclothing	–	–
Costume	–	–
Bedding and bed linen	2	4
Mattress or pillow	–	1
Upholstered furniture	3	3
Unclassified or unknown	6	10

Table 19 (continued)

Circumstances Contributing to Fire Casualties, Saskatchewan, 1987

Circumstances	Number of fatalities	Number of injuries
Type of fabric or material ignited		
Total	**33**	**65**
Not applicable	22	38
Cotton	–	1
Wool	–	–
Other natural fibre	–	–
Rayon (viscose)	–	–
Other synthetic fibre	–	6
Mixture of fibres	6	8
Rubber	–	–
Plastic foam	–	1
Unclassified or unknown	5	11
Cause of failure to escape		
Total	**33**	**65**
Not applicable	3	25
Trapped by rapid spread of fire/smoke through vertical openings, stairways or elevators	8	3
Trapped by rapid spread of fire/smoke through horizontal openings	6	4
High flame spread of combustible interior finish of walls, ceilings or floors	–	2
Building collapse	–	–
Falling debris	–	–
Explosion	1	5
Exit blocked or obstructed by fire	2	2
Outdoor fire (includes forest and brush)	–	2
Unclassified or unknown	13	22

Table 20

Results and Disposition of Fire Crime Report Investigations, Saskatchewan, 1987

Disposition	Number
Total number of investigation master records	**256**
Suspect segments listed	267
Juvenile male suspects	11
Juvenile female suspects	1
Male adult suspects	48
Female adult suspects	9
Unfounded arson investigations	67
Persons suspected/concluded	30
Charges laid	39
Investigations — persons unknown	131

Table 21

Investigation of Fires, Charges Laid, as reported by RCMP and Fire Commissioner's Staff, Saskatchewan, 1987

		Adult		Juvenile	
	Total	Male	Female	Male	Female
Total offences/charge laid	**39**	**24**	**6**	**9**	**—**
Cleared otherwise	4	2	2	—	—
Section 389(1)	17	15	2	—	—
Section 389(2)	3	3	—	—	—
Section 390	4	3	1	—	—
Section 392(1)	—	—	—	—	—
Section 306	—	—	—	—	—
Section 387	8	—	—	8	—
Section 388	—	—	—	—	—
Section 421	—	—	—	—	—
Others	3	1	1	1	—
Invalid	—	—	—	—	—

Note: The sections referred to above correspond to those within the *Criminal Code*.

Table 22

Investigation of Fires, Conclusion of Charges Laid, as reported by RCMP and Fire Commissioner's Staff Saskatchewan, 1987

	Total	Adult		Juvenile	
		Male	Female	Male	Female
Total charges laid	**39**	**24**	**6**	**9**	**–**
Conclusion of charges					
Pending	26	21	1	4	–
Withdrawn	–	–	–	–	–
Stay of proceedings	–	–	–	–	–
Committed to mental institute	–	–	–	–	–
Convicted	10	2	3	5	–
Dismissed	–	–	–	–	–
Invalid	3	1	2	–	–

Table 23

Plans and Specifications of New Buildings Reviewed, by Disposition, Saskatchewan, 1978-79 to 1987-88

Year	Total	Approved	Approved subject to alterations	Rejected
1978-79	1,531	329	948	254
1979-80	1,439	547	654	238
1980-81	1,356	382	771	203
1981-82	1,254	333	747	174
1982-83	1,206	407	675	124
1983-84	1,406	505	754	147
1984-85	1,449	539	783	127
1985-86	1,199	401	698	100
1986-87	1,380	401	833	145
1987-88	1,105	412	614	79

Table 24

Inspections and Improvement Orders by Property Classification, Saskatchewan, 1987-88

Class of property	Inspections (calls)*	Improvement orders issued
Total	**4,915**	**618**
Assembly	**1,908**	**305**
Agriplexes	5	2
Amusement centres (arcades)	8	–
Ball parks	7	–
Bowling alleys	14	2
Change houses	2	–
Churches	334	16
Clubs	20	1
Court rooms	1	–
Day care centres	7	2
Funeral homes	3	–
Halls	368	54
Libraries	18	2
Licensed dining rooms	–	–
Museums	23	1
Pool rooms	2	–
Restaurants (cafes)	194	18
Rinks	381	77
Senior citizen centres	98	13
Schools (sheltered workshops, activity centres)	401	115
Swimming pools	8	2
Theatres	14	–
Undertaking premises	–	–
Institutional	**263**	**29**
Correction centres	15	5
Hospitals	141	15
Hostels	6	–
Jails	1	–
Nursing homes	95	9
Rehabilitation centres	5	–
Residential	**712**	**191**
Apartments	157	38
Approved homes	31	1
Cabins	6	1
Convents, monasteries	7	2
Dormitories	12	–
Group homes	31	–
Houses	48	2
Hotels	308	131
Lodging houses	11	3
Mobile homes	5	–
Motels	77	13
Summer camp buildings	19	–

Table 24 (continued)

Inspections and Improvement Orders by Property Classification, Saskatchewan, 1987-88

Class of property	Inspections (calls)*	Improvement orders issued
Business	**435**	**11**
Banks (credit unions)	51	–
Barber and hairdressing shops	17	–
Clinics (medical and veterinary)	12	2
Health spas	2	1
Laundromats and drycleaners	13	–
Offices	339	8
Radio stations	1	–
Mercantile	**442**	**12**
Car washes	6	–
Department stores	4	1
Exhibition halls	5	–
Shops	3	1
Stores	390	10
Supermarkets	34	–
Industrial	**1,155**	**70**
Above and underground tanks	47	12
Aircraft hangers	5	–
Autobody shops	17	–
Bakeries	8	1
Bulk oil plants (propane)	208	31
Cold storage plants	1	–
Concrete plants	5	–
Creameries and dairies	–	–
Factories	41	–
Fertilizer buildings	4	–
Fire stations	78	–
Hatcheries	1	–
Lumber yards	17	2
Machine shops (metal, welding)	27	1
Meat packers	1	–
Mills	3	–
Oil field supplies	13	–
Plumbing and heating shops	6	–
Power houses	2	–
Printing shops	4	–
Pump houses	19	–
Repair garages (implements)	244	11
Service stations	203	9
Storage garages and rooms	52	2
Upholstery shops	10	–
Warehouses (storage sheds)	96	1
Water treatment plants	18	–
Well drilling	–	–
Woodworking Factories (shops)	11	–
Workshops	14	–

* Includes 1,005 special inspections and 664 re-inspections.

Table 25

Inspections and Improvement Orders Issued, Saskatchewan, 1978-79 to 1987-88

Year	Inspections (calls)	Improvement orders issued
1978-79	5,824	764
1979-80	5,285	711
1980-81	4,076	626
1981-82	3,603	650
1982-83	6,028	907
1983-84	5,884	757
1984-85	3,815	735
1985-86	3,268	698
1986-87	5,432	861
1987-88	4,915	618

Table 26

Inspections by Property Classification, Saskatchewan, 1978-79 to 1987-88

Year	Total	Residential buildings	Commercial property	Institutional and assembly buildings	Manufacturing establishments	Other bldgs.
1978-79	5,824	574	2,856	2,016	44	334
1979-80	5,285	529	2,485	2,004	23	244
1980-81	4,076	409	1,911	1,554	14	188
1981-82	3,603	450	1,607	1,349	13	184
1982-83	6,028	681	2,845	2,137	29	336

Year	Total	Assembly	Inst'nl	Residential	Bus.	Mercantile	Industrial
1983-84	5,884	2,056	176	654	822	627	1,549
1984-85	3,815	1,585	163	685	307	248	827
1985-86	3,268	1,815	216	631	92	22	492
1986-87	5,432	2,690	328	965	316	124	1,009
1987-88	4,915	1,908	263	712	435	442	1,155

Note: This includes special inspections and re-inspections to ascertain compliance with improvement orders.

Table 27

Improvement Orders Issued, by Property Classification, Saskatchewan, 1978-79 to 1987-88

Year	Total	Residential buildings	Commercial property	Institutional and assembly buildings	Manufacturing establishments	Other bldgs.
1978-79	764	133	117	461	1	52
1979-80	711	117	118	447	1	28
1980-81	626	115	132	360	—	19
1981-82	650	144	120	353	1	32
1982-83	907	246	126	483	4	48

		Assembly	Inst'nl	Residential	Bus.	Mercantile	Industrial
1983-84	757	403	38	157	6	5	148
1984-85	735	379	43	222	10	2	79
1985-86	698	394	39	189	2	3	71
1986-87	861	422	38	238	7	1	155
1987-88	618	305	29	191	11	12	70

Note: This includes special inspections and re-inspections to ascertain compliance with improvement orders.

Table 28

Oil Burner Licences and Permits Issued under *The Fire Prevention Act*, Saskatchewan, 1978-79 to 1987-88

Type of licence or permit	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
Total oil burner licence	**121**	**119**	**180**	**129**	**109**	**94**	**88**	**108**	**71**	**59**
Wholesalers' or manufacturers' (annual)	10	11	11	12	11	11	12	9	8	7
Installers' (annual)	45	49	51	42	41	34	27	25	22	18
Installers' (quinquennial)	66	59	118	75	57	49	49	74	41	34
Total oil burner permits (annual)	**203**	**208**	**166**	**106**	**71**	**16**	**10**	**3**	**10**	**9**

Note: The number of licensed oil burner installers, in Saskatchewan, in 1987-88 was 273.

Table 29

Selected Activities in Fire Prevention Education, Saskatchewan, 1987-88

Selected Activity	Number of meetings	Attendance
Public meetings	10	249
School lectures	104	7,785
Other lectures and demonstrations	23	1,168
Film showings	429	10,206
Fire department meetings	25	178
Municipal council conferences	5	21
Meetings with school boards	3	8
Meetings with hospital boards	4	126
Meetings with fire chiefs	43	—
Court cases	19	—
School fire drills	16	2,529
Building/design consultants	96	—
Learn Not to Burn In-Service programs	7	231

Note: Attendance figures are not recorded for all activities.

Table 30

Selected Activities in Fire Prevention, Saskatchewan, 1978-79 — 1987-88

Activity	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
Public meetings	10	11	7	4	4	21	2	17	12	10
School lectures	39	117	80	46	200	160	135	110	138	104
Other lectures and demonstrations	8	46	11	12	3	33	55	53	21	33
Film showings*	65	132	80	74	260	195	162	135	441	429
Fire department conferences	17	31	33	18	30	39	58	46	32	25
Meetings with school boards	13	19	4	10	8	17	12	10	21	3
Meetings with hospital boards	5	—	5	1	7	3	6	14	2	3
Meetings with fire chief, etc.	232	135	213	105	97	19	13	28	41	43
Hospital emergency training	2	4	5	—	3	—	1	—	52	41
Nursing Homes	—	—	—	—	—	—	—	—	34	24

* These figures refer only to film showings sponsored by the Fire Commissioner's Branch.

Table 31

Volunteer Firefighters' Training Schools, Saskatchewan, 1987-88

Location	Period
Basic Fire Schools	
Francis	April 6, 7, 8, 1987
Uranium City	April 22, 23
Stoney Rapids	April 22, 23
Kamsack	May 4, 5, 6
Wawota	May 12, 13, 14
Kerrobert	June 8, 9, 10
Fox Valley	June 8, 9, 10
Edenwold	June 15, 16, 17
Echo Bay	July 3
Riverhurst	July 13, 14, 15
Mossbank	July 27, 28, 29
Bruno	August 4, 5, 6
Theodore	August 10, 11, 12
Piapot	August 17, 18, 19
Turtleford	August 31, September 1, 2
Waldheim	September 8, 9, 10
Vibank	September 8, 9, 10
Beauval	September 14, 15, 16
La Ronge	September 14, 15, 16
Young	September 21, 22, 23
Weyakwin	October 13, 14
Bethune	October 13, 14, 15
Bienfait	October 20, 21, 22
Fleming	October 26, 27, 28
Abernethy	November 2, 3, 5
Rouleau	November 2, 3, 5
Certificate Courses	
Englefeld	April 2, 1987
Melfort	April 7, 8, 9
Semans	April 13, 14, 15
Unity	April 13, 14, 15
Regina #2 Fire Station	April 14
Uranium City	April 21, 22
Stoney Rapids	April 21, 22
Kipling	May 11, 12, 13
Nipawin	June 6
Big River	June 22, 23, 24
Regina Airport	July 6, 7, 8
Grenfell	July 14, 15, 16
Goodsoil	August 17, 18, 19
Senlac	August 24, 25, 26
Rose Valley	August 27
Lucky Lake	August 31, September 1, 2
Yellow Grass	September 21, 22, 23
Archerwill	September 28, 29, 30
Assiniboia	September 28, 29, 30
Hafford	October 5, 6, 7
Eston	October 26, 27, 28
St. Louis	November 16, 17, 18
Moose Jaw	December 7, 8
Prince Albert	January 4, 5, 6, 7, 1988
Hodgeville	January 11, 12, 13
Canwood	January 19, 20, 21

Table 31 (continued)

Volunteer Firefighters' Training Schools, Saskatchewan, 1987-88

Location	Period
Certificate Courses (continued)	
Nipawin	February 8, 9, 10
Prince Albert	February 15, 16, 17
Moose Jaw A and B Platoon	March 4
Strasbourg	March 7, 8, 9
Perdue	March 14, 15, 16
Vibank	March 21, 22, 23
Moose Jaw	March 24, 25
Miscellaneous Courses	
Regina R.C.M.P. Depot Division	April 14, 1987
Regina Saskatchewan Environment and Public Safety	April 20
Stoney Rapids	April 24
Kipling	May 13
Regina Youth Unlimited	June 22
Saskatoon	July 9
Wascana Institute	August 26
Yellow Grass	September 24
Porcupine Plain School	September 29
Saskatoon Kelsey Institute	October 7
Prelate Convent	October 29
Prince Albert School Division #56	November 19
Regina R.C.M.P. Airport Special Constables "Depot" Division	December 2
North Battleford Kelsey Institute of Applied Arts and Sciences	December 2
Regina No. 2 Firehall	March 3, 1988

Table 32

Volunteer Firefighters' Training Schools, Saskatchewan, 1978-79 — 1987-88

Year	Number of training schools conducted	Number of persons registered
1978-79	28	2,564
1979-80	51	3,319
1980-81	49	3,230
1981-82	27	2,039
1982-83	33	2,046
1983-84	31	2,246
1984-85	47	1,198
1985-86	55	930
1986-87	80	979
1987-88	96	1,138